Highlights and Features of the XML Generation Tool Mockups

The WQX XML Generation Tool is designed to import flat file formatted data (e.g. .txt files or .xls files) and export this data into WQX compatible XML. Once the XML is created, the tool then allows submission through CDX (Central Data Exchange) and into the WQX system. It is designed to handle data in the WQX v2.0 format, in other words, it's designed to accept chemical, physical as well as biological and habitat monitoring data.

The concepts and operations of this tool are similar to the WebSIM tool. For example, a user sets up a configuration for the order of data columns within the source file much like in WebSIM. The tool also allows a user to set up translations or defaults for data values being imported. One difference worth noting is that once an XML file is created by the tool and submitted through WQX, as long as there are no other errors in the file, a user does not have to migrate the data; rather, the data will have been automatically placed in the WQX database. If there are errors with the data, that data will need to be fixed and regenerated into XML through the tool for submission through WQX.

Please note that these mockups are draft and they do not represent the full functionality of the tool.

Steps for downloading and getting started:

1. Save the zip file on to your computer and extract all contents to a directory of your choice. Once extracted, a new directory "Page Mockups" is created. Double click on this new directory.
2. Double click on "index.htm" to launch the mockups within your internet browser.
3. You'll need to configure your internet browser to allow the file to run active content such as scripts in order for the mock ups to work.

Steps for walking through the tool's highlights and features:

1. Take a moment to look at the **Home** page – from this page, a number of features may be accessed, including creating new datasets or querying the WQX domain values. These same features are also accessible on the left blue side bar.

2. Take a moment to look at the links in the left blue side bar:

   - **Contact Information** – Allows a user to input default contact information that will later be used in the WQX file submission
   - **Create Dataset** – From this screen, different types of data may be imported into the tool for insert, update or delete type transactions

- **Continue with Existing Dataset** – Datasets saved earlier may be returned to through this screen
- **Domain Values** – This link provides access to the WQX domain values
- **Event Log** – Tracks actions and events that a user has performed within the tool
- **Export Dataset** – From this screen, a user may export a file (that had been previously imported) to WQX XML
- **Import Configurations** – Through this screen, a user configures the tool to recognize the formats of the flat files being imported into the tool
- **Organizations** – Allows a user to set up default organization information that will then be used over and over again with data exports
- **Projects** – Allows a user to define default project information that can be used over and over again with data exports
- **Preferences** – Allows a user to set up preferences for import file format, etc

Example: Walking through a data submission

1. Click on **Import Configurations** on the left blue side bar. Choose "My Results Example 1" as the configuration to look at.

2. On the **Import Configuration Detail** screen, scroll through the page and notice the features for mapping the import data to the WQX data elements (e.g. a user can pick the column number for a data element or pick the data element for a particular column). The Organization and Project information can be automatically filled in based on the defaults set from the **Organizations** and **Projects** links on the left blue side bar.

3. Click on **Create New Dataset** on the left blue side bar. Under the "To Insert or Update Data" heading, click on **Import a File of Activities and Results**.

4. On the **Import File Detail** screen, notice that a user can choose the "My Results Example 1" configuration for the data import. Click the **Continue** button (this step actually imports the data into the tool).

5. On the **Dataset Summary** screen, notice that the tool shows how much of the imported data is valid for transformation into WQX XML. Under the Validation Errors area, click on each link to see how the tool allows a user to deal with these types of errors on the fly. Click on the **Return** button to get back to the **Dataset Summary** screen.

6. From the **Dataset Summary** screen, click the **Finalize Dataset** button. Note on the **Finalize Dataset** page allows a user to look at the error fixes and final data before flagging it as ready for export. Click the **Continue with Export** button.

7. The **Header Information** page shows the contact information of the person exporting the file. This information is used within the header document of the exported XML file. The header document an important piece of the WQX XML file that provides for transactional information. Click the **Continue** button.

8. On the **Generate XML File** screen, note that a user has the ability to download the generated XML file locally. Click the **Continue** button.

9. On the **Submit File to CDX** screen, the successful download of the XML file is confirmed. From here a user can submit the file through WQX, or may choose to submit later.